

ACTIVE TRAVEL SURVEY: TABLE & GRAPH (PART 2)

AIM

- To compile Active Travel Survey data in a table and graph format to display the different modes of transport used by people from three generations.

VELS: 3/4

GRADE: 3-6

- [Mathematics](#) - Level 3/4

Students plan and conduct questionnaires to collect data for a specific purpose. They organise and present data using displays such as simple frequency tables. Students collect data to construct simple frequency graphs

DURATION (approximate)

- 15min: (Class activity) [Active Travel Survey: Table](#)
- 30min: (Individual activity) [Active Travel Survey: Graph](#)
- 10min: Follow-up Discussion

LINK

- [Active Travel Survey \(PART 1\)](#)
- [Back to Contents Page](#)

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LESSON NOTES

EQUIPMENT

- Students require their three COMPLETED Active Transport Surveys.
- 1 sheet per student: [Active Travel Survey: Table](#).
- 1 sheet per student: [Active Travel Survey: Graph](#).
- Coloured pencils & ruler.

LESSON

- 1) **Tuning In:** Ask students to predict which generation from the Active Travel Surveys (Q3), will have the highest number of active travellers.
- 2) Explain to students that by placing survey results for Question 3 into a table and creating a graph, they will be able to work out which generation had the most active travelers. (See [EXAMPLE: Active Travel Survey Table & Graph](#)).
- 3) **Table:** The class needs to transfer Q3 results from all three surveys onto the Active Travel Survey: Table.

Suggested method 1:

Call out the different modes of travel listed on Q3 for each survey. Ask students to raise their hand in response to the mode of travel circle on their survey. Count the number of students with their hands up for each mode of travel. Students write the totals on their [Active Travel Survey: Table](#) in the correct category boxes. (The different modes of travel listed at Q3 on each survey are provided below).

Q3 FROM THE ACTIVE TRAVEL SURVEYS	
3) How do you usually travel to school? (Circle)	
Student Survey	Bike, walk, rollerblades, skateboard, bus, train, ferry, tram, car.
Parent Survey	Bike, walk, skates, skateboard, bus, train, ferry, tram, car.
Grandparent Survey	Bike, walk, skates, horse, horse & cart, bus, train, ferry, tram, car.

Suggested method 2:

Enlarge one Active Travel Survey: Table to A3 size. All students write their survey results from Q3 onto this sheet in the correct category boxes in a tally format. Teacher writes the totals in each box and then provides an A4 size photocopy for each student to use for the graphing exercise.

- 4) **Bar Graph:** Students transfer the totals from the table onto the graph template, using a ruler and coloured pencils to represent the different modes of travel.

- 5) Students read the graph to work out the most and least common modes of travel for each generation. They write these results into the boxes provided directly below the graph.

FOLLOW-UP DISCUSSION

- Compare students' predictions about which generation would have the highest number of active travellers with the results displayed on the graph.

- Compare the most common and least common modes of travel for each generation.


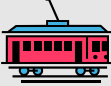


- Identify and discuss historical and societal changes influencing the most common and least common modes of travel for each generation.

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ACTIVE TRAVEL SURVEY: TABLE

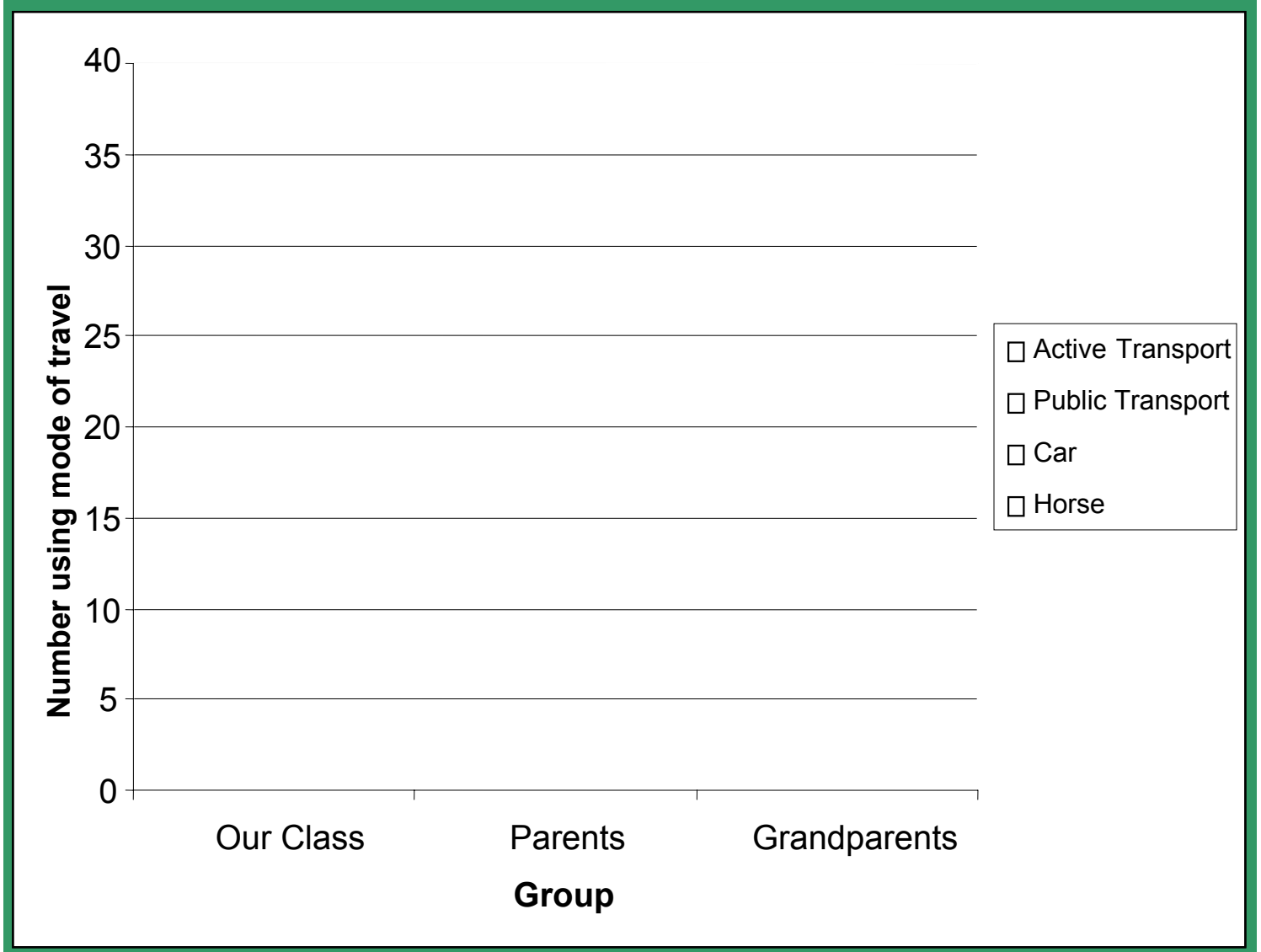
Generational Mode of Travel Results

MODE OF TRAVEL	OUR CLASS	PARENTS	GRANDPARENTS
 ACTIVE TRAVEL (Bike, Walk, Scooter, Skateboard, Skates, Rollerblades)			
 PUBLIC TRANSPORT (Bus, Train, Tram, Ferry)			
 CAR			
 HORSE (Horse, Horse & Cart)			

Transfer the totals from the table onto the graph template, using a ruler and coloured pencils to represent the different modes of travel.

ACTIVE TRAVEL SURVEY: GRAPH

Generational Mode of Travel Results



Look at the graph to work out the most and least common modes of travel.

3 Generations	Most Common	Least Common
<i>Our Class</i>		
<i>Our Parents</i>		
<i>Our Grandparents</i>		

EXAMPLE: ACTIVE TRAVEL SURVEY TABLE & GRAPH

Mode of travel	Our Class	Parents	Grandparents
ACTIVE TRANSPORT (Bike, Walk, Scooter, Skateboard, Rollerblades)	15	20	15
PUBLIC TRANSPORT (Bus, Train, Tram, Ferry)	10	5	5
CAR (Car, Truck, Motorbike)	5	5	1
HORSE (Horse, Donkey, Horse & Cart)	0	0	1

